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Enter terms  
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- [Relevancy \(descending\)](#)
- [Title \(ascending\)](#)
- [Open Date \(descending\)](#)
- [Close Date \(descending\)](#)
- [Release Date \(ascending\)](#)

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Displaying 1 - 10 of 275 results

## Closed Topic Search

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### [1. PA-11-341: Development of Novel and Emerging Technologies for the Accurate Detection and Diagnosis of Polymicrobial Infections in Biomedical Laboratory Animal Models](#)

Release Date: 09-16-2011Open Date: 11-05-2011Due Date: 09-08-2014Close Date: 09-08-2014

Microbial infections in biomedical laboratory animal models have become an increasingly important topic, because the constant possibility of outbreaks that may threaten the survival or utility of biomedical animal models available for current and future research needs. This funding opportunity announcement (FOA) encourages applications from small business concerns (SBCs) for Small Business Technol ...

STTR Department of Health and Human Services

### [2. AF11-BT01: Electro-optic Material Development](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes OBJECTIVE: Develop techniques and processes for scale up and production of high performance electro-optic (EO) organic material systems with sufficiently large Electro-optical Coefficient ( $r_{33} > 150 \text{ pm/V}$ ). DESCRIPTION: Recent interest in the development of high performance electro-optic devices that enable critical military systems has led to a ...

STTR Department of Defense

### [3. AF11-BT02: Electrically-Small Superconducting Wide-Bandwidth Receiver](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Electronics OBJECTIVE: Develop a wide-bandwidth (DC to 2 GHz) receiver utilizing two-dimensional arrays of high-transition-temperature (HTS) superconducting quantum interference devices (SQUIDS) DESCRIPTION: Large bandwidth communication systems are needed for the handling of high data throughput, while at the same time they should be capable of reducing size, wei ...

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### [4. AF11-BT03: Cognitive Radio Spectrum Management and Waveform Adaptation for Advanced Wideband Space Communication Systems](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Space Platforms OBJECTIVE: Advanced game-theoretical frameworks and hybrid approaches for spectrum sensing and management in wideband space communication systems and hybrid space-terrestrial systems as well as countermeasures for adaptive RF interference & adversarial jamming. DESCRIPTION: Space vehicles and air-/space-borne sensors are essential components fo ...

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**5. [AF11-BT04: 3-D nondestructive imaging techniques for mesoscale damage analysis of composite materials](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Weapons OBJECTIVE: Develop techniques for detecting and modeling the evolution of damage in composite materials such as plastic bonded explosives or concretes using nondestructive means. DESCRIPTION: In hard target penetration, the onboard energetic material may be subjected to severe environments of both pressure and shear loading. Dama ...

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**6. [AF11-BT05: Printable Integrated Photonic Devices](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Sensors OBJECTIVE: Develop proof-of-concept printing technology for the design, modeling and manufacture of integrated photonic devices at low dimensions. DESCRIPTION: Printable electronics and photonics are emerging technologies that have attracted a lot of attention over the last decade. Traditionally, CMOS processes have been used to fabricate electronic and ph ...

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**7. [AF11-BT06: Sensitivity Analysis Methods for Complex, Multidisciplinary Systems](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Air Platform, Information Systems OBJECTIVE: Develop computational tools to compute response sensitivities of parametric multidisciplinary systems that exhibit nonlinear, dynamic behavior for use in gradient-based optimization, smart sampling, uncertainty quantification, and risk analysis. DESCRIPTION: Much progress has been made in the development of algorithms f ...

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**8. [AF11-BT07: High efficiency materials & processes for the reduction of CO2 to syngas](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Air Platform, Materials/Processes OBJECTIVE: Develop high efficiency (>70%) electrodes for electrochemical conversion of CO2 and water to syngas for JP-8 production. DESCRIPTION: The efficient conversion of CO2 into storable liquid fuels would help create a secure and sustainable source of carbon-neutral transportation fuels. Two approaches to this are to ...

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**9. [AF11-BT08: Plasma Simulation Code Encompassing Single-Fluid through Two-Fluid Models](#)**

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Space Platforms, Weapons OBJECTIVE: This topic seeks to develop robust unified plasma simulation software that encompasses single-fluid through two-fluid models and that is widely applicable to the large parameter space of Air Force needs in a single software package. DESCRIPTION: This topic seeks to develop robust unified plasma simulation so ...

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**10. [AF11-BT09: Intracellular Detection of Small Molecules in Live Cells](#)**

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Chemical/Bio Defense, Biomedical, Sensors OBJECTIVE: For the defense of toxic chemical and biological agents, the objective is to develop a broad-based biosensor, with "off" to "on" functionality that will allow for sensing of potential hazards. DESCRIPTION: Many sensors exist for detecting chemical and biological agents in non-biological e ...

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- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [5](#)
- [6](#)
- [7](#)
- [8](#)
- [9](#)
- ...
- [Next](#)
- [Last](#)

```
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